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PTO/SB/05 (03-01) Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No.	PA1942US
First Inventor	Kyusik Sin
Magnetic Tunne Title Stability and Po	eling Junction MRAM with Improved

(Only for new nonprovisio	nal applications under 37 CFR 1.53(b)) Expres	s Mail L	(S00V)	1556691	ZL
APPLICATION ELEMENTS		ADE	DRESS TO:	Box Patent A	pplication	
See MPEP chapter 600 con	cerning utility patent application conte	nts.	<u></u>	Washington,		_=
Fee Transmittal F (Submit an original and a Applicant claims s See 37 CFR 1.27 3. Specification (preferred arrangemen - Descriptive title - Cross Referenc - Statement Reg - Reference to se or a computer p - Background of - Brief Summary - Brief Descriptic - Detailed Descri - Claim(s) - Abstract of the 4. Drawing(s) (35 U 5. Oath or Declaration a. Newly execution	form (e.g., PTO/SB/17) duplicate for fee processing) small entity status. [Total Pages 33] at set forth below) to et to Related Applications arding Fed sponsored R & D equence listing, a table, program listing appendix the Invention of the Invention on of the Drawings (if filed) iption Disclosure	7	Computer Procleotide and/or Arapplicable, all new Computer For Specification Secondary in CD-ii. pape Statements ACCOMPANY X Assignment 37 CFR 3.75 (when there English Translatement (Preliminary Return Recompany) X Return Recompany	CD-R in duplicate ogram (Appendix mino Acid Seque cessary) Readable Form (Quence Listing or ROM or CD-R (2) er everifying identity ING APPLIC Papers (cover sign) Statement is an assignee) inslation Docume Disclosure IDS)/PTO-1449 Amendment eipt Postcard (M	e, large table or x) ence Submission CRF) n: 2 copies); or y of above copies CATION PARTS heet & document(s) Power of Attorney ent (if applicable) Copies of 1 Citations))
i. DELET Signed sta named in 1 1.63(d)(2)	TON OF INVENTOR(S) atement attached deleting inventor(s) the prior application, see 37 CFR and 1.33(b). Sheet. See 37 CFR 1.76	15. [16. [17. [Certified Co (if foreign p	Applicant must a		3/35
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.				- nder		
	19. CORRESPO	ONDENCE ADD	DRESS			
Customer Number or Bar C	ode Label (finse it Just party), it is	t den site Del be	or [Correspon	dence address below	
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	PATENT TRADEMA		,			
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(1)	Robert D. Hayden		introfice No. (A	tornoul Ameri	42,645	$\overline{}$
Name (PrintlType)	1/1/1/1	Reg	istration No. (A		Dec. 14, 2001	
Signature	1 Black News			Date	ו טטט. ו4, בטטו	

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for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)	2,424.0	C
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Complete if Known			
Application Number	Unknown		
Filing Date	December 14, 2001		
First Named Inventor	Kyusik Sin		
Examiner Name	Unknown		
Group Art Unit	Unknown		
Attorney Docket No.	PA1942US		

METHOD OF PAYMENT FEE CALCULATION (continued)			
The Commissioner is bereby authorized to charge	3. ADDITIONAL FEES		
indicated fees and credit any overpayments to:	Large Small		
Deposit Account 06-0600	Entity Entity Fee Fee Fee Fee Fee Description	Fee Paid	
Number	Code (\$) Code (\$)		
Account Carr & Ferrell, LLP	105 130 205 65 Surcharge - late filing fee or oath		
Name	127 50 227 25 Surcharge - late provisional filing fee or cover sheet		
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	- N		
Applicant claims small entity status.	139 130 139 130 Non-English specification		
See 37 CFR 1.27	147 2,520 147 2,520 For filing a request for <i>ex parte</i> reexamination 112 920* 112 920* Requesting publication of SIR prior to		
2. X Payment Enclosed: V Check	112 920* 112 920* Requesting publication of SIR prior to Examiner action		
Order C	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action		
FEE CALCULATION	115 110 215 55 Extension for reply within first month		
1. BASIC FILING FEE	116 400 216 200 Extension for reply within second month		
Large Entity Small Entity Fee Fee Fee Fee Description	117 920 217 460 Extension for reply within third month		
Code (\$) Code (\$) Fee Paid	118 1,440 218 720 Extension for reply within fourth month		
101 740 201 370 Utility filing fee 740	128 1,960 228 980 Extension for reply within fifth month		
106 330 206 165 Design filing fee	119 320 219 160 Notice of Appeal		
107 510 207 255 Plant filing fee 108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an appeal		
108 740 208 370 Reissue filing fee 114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing		
	138 1,510 138 1,510 Petition to institute a public use proceeding		
SUBTOTAL (1) (\$)740	140 110 240 55 Petition to revive - unavoidable		
2. EXTRA CLAIM FEES Fee from	141 1,280 241 640 Petition to revive - unintentional		
Ext <u>ra Clai</u> ms <u>below</u> Fee Paid			
Total Claims 88 20 = 68 × 18 = 1,224	143 460 243 230 Design issue fee		
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Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)	- U	
103 18 203 9 Claims in excess of 20 102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))		
104 280 204 140 Multiple dependent claim, if not paid	149 740 249 370 For each additional invention to be		
109 84 209 42 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))		
110 18 210 9 ** Reissue claims in excess of 20	179 740 279 370 Request for Continued Examination (RCE)		
and over original patent	169 900 169 900 Request for expedited examination of a design application		
SUBTOTAL (2) (\$) 1,644	Other fee (specify)		
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40		

		Complete (if applicable)			applicable)
SUBMITTED BY Name (PrintlType)	Robert D. Hayden	Registration No. (Attorney/Agent)	42,645	Telephone	(650) 812-3400
Signature	111	Al		Date	December 14, 2001
Signature	12/12	1 ay			

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REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor		Kyusik Sin
Title Magnetic Tunneling Junction MRAM Wi Improved Stability And Power		unneling Junction MRAM With cability And Power
Atty Docket Number PA1942US		

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

/2//4/01 Date

Signature

Robert D. Hayden, Reg. No. 42,645

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.